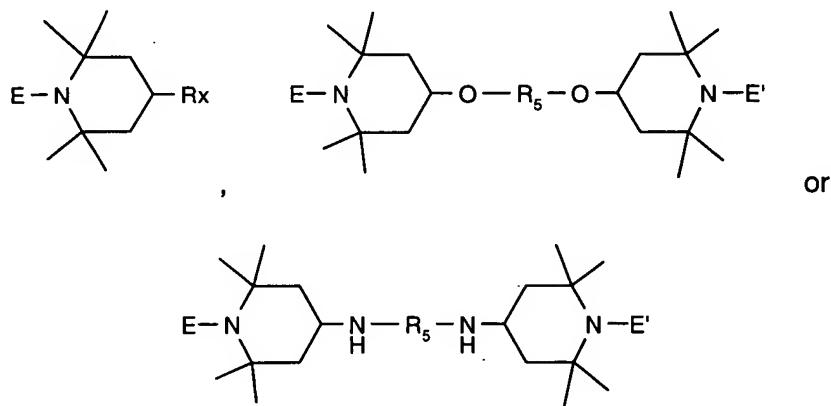


**Water Compatible Sterically Hindered Alkoxyamines and  
Hydroxy Substituted Alkoxyamines**

**Abstract of the Disclosure**

Sterically hindered alkoxyamine and hydroxy substituted alkoxyamine stabilizer compounds are made water compatible via certain backbones with affinity towards water. The sterically hindered amines are for example of the formula



where for example E and E' are 2-hydroxycyclohexyloxy, 2-hydroxy-2-methylpropoxy, benzyloxy, methoxy, propoxy, hexyloxy, heptyloxy, octyloxy or cyclohexyloxy, R<sub>x</sub> is for example -NH<sub>2</sub><sup>+</sup>CH<sub>2</sub>CH<sub>2</sub>OH Cl<sup>-</sup>, -NH<sub>3</sub><sup>+</sup> OAc, =NOH, -NHCH(CH<sub>3</sub>)COO<sup>-</sup>K<sup>+</sup>, -NHCH<sub>2</sub>CH<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub><sup>+</sup> OAc, -NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub><sup>-</sup>K<sup>+</sup>, -NHCH(COO<sup>-</sup>K<sup>+</sup>)CH<sub>2</sub>CH<sub>2</sub>SCH<sub>3</sub>, -NHCH<sub>2</sub>COO<sup>-</sup>K<sup>+</sup>, -OCH(CH<sub>3</sub>)COO<sup>-</sup>K<sup>+</sup>, -OCH<sub>2</sub>CH<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub><sup>+</sup> OAc, -OCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub><sup>-</sup>K<sup>+</sup>, -OCH(COO<sup>-</sup>K<sup>+</sup>)CH<sub>2</sub>CH<sub>2</sub>SCH<sub>3</sub> or -OCH<sub>2</sub>COO<sup>-</sup>K<sup>+</sup>, and where R<sub>5</sub> comprises repeating units of -(OCH<sub>2</sub>CH<sub>2</sub>)-, -(OCH<sub>2</sub>CH<sub>2</sub>(CH<sub>3</sub>))-, -(CH<sub>2</sub>CHCOOH)-, -(CH<sub>2</sub>C(CH<sub>3</sub>)COOH)-, -(CH<sub>2</sub>CHCOOCH<sub>3</sub>)-, -(NHCH<sub>2</sub>CH<sub>2</sub>)-, -(CH<sub>2</sub>CHOH)-, -(CH<sub>2</sub>CHCONH<sub>2</sub>)- or -(CH<sub>2</sub>CH(NHCOH))-.. These compounds are particularly effective in stabilizing aqueous polymer systems against the deleterious effects of oxidative, thermal and actinic radiation. The compounds are effective for example in stabilizing water borne coatings, aqueous inks, aqueous ink jet media and photocured aqueous systems.